

## AMENDMENTS TO THE CLAIMS

The claims in this listing will replace all prior versions, and listings of claims in the application.

### Listing of Claims:

1. (Canceled)

2. (Currently amended) [[The]] A radio reception apparatus according to claim 1, comprising:

a receiver configured to receive a signal on a per time unit basis, the received signal including a known signal pattern on a predetermined per time unit basis;  
an adjuster configured to adjust a filter for filtering the received signal using the known signal pattern on a per time unit basis; and

a canceller configured to cancel an interference component included in the time unit using the adjusted filter;

wherein the adjuster includes comprises:

a modulation scheme determiner determination section that configured to process likelihoods calculated for individual modulation schemes and to determine the modulation using the known signal pattern determines a modulation scheme on a per said processing unit basis using the known signal pattern; and

a tap coefficient controller control section configured to control that controls tap coefficients to set [[to]] the filter according to the determined modulation scheme.

3. (Currently amended) [[The]] A radio reception apparatus according to claim 1, comprising:

a receiver configured to receive a signal on a per time unit basis, the received signal including a known signal pattern on a predetermined per time unit basis;  
an adjuster configured to adjust a filter for filtering the received signal using the known signal pattern on a per time unit basis; and  
a canceller configured to cancel an interference component included in the time unit using the adjusted filter;

wherein the adjuster adjusting section includes comprises:

a frequency converter conversion section configured to perform that performs a frequency analysis of the received signal; and  
an interference level detector detecting section configured to detect that detects adjacent channel interference from a result of the frequency analysis;  
a modulation scheme determiner configured to process likelihoods calculated for individual modulation schemes and to determine the modulation using the known signal pattern; and  
a tap coefficient controller configured to control tap coefficients to set the filter according to the determined modulation scheme and a detection result of adjacent

~~channel interference and determines tap coefficients to set to the filter according to the detection result.~~

4. (Currently amended) [[The]] ~~A~~ radio reception apparatus according to claim 1, comprising:

~~a receiver configured to receive a signal on a per time unit basis, the received signal including a known signal pattern on a predetermined per time unit basis;~~

~~an adjuster configured to adjust a filter for filtering the received signal using the known signal pattern on a per time unit basis; and~~

~~a canceller configured to cancel an interference component included in the time unit using the adjusted filter;~~

~~a transmission path characteristic estimator configured to estimate a transmission path characteristic using the known signal pattern included in the received signal from which interference is canceled;~~

~~wherein the adjuster adjusting section includes comprises:~~

~~an error measurer measuring section configured to measure that measures an error of the received signal that occurs due to a transmission path characteristic by comparing the known signal pattern included in the received signal with a known signal pattern obtained by canceling the transmission path characteristic on a per said processing unit basis using the known signal pattern; and~~

~~a tap coefficient controller control section configured to control that controls tap coefficients to set [[to]] the filter based on the measured error and a reception level of the received signal.~~

5. (Currently amended) The radio reception apparatus according to claim [[1]] 2,  
wherein the canceller includes comprises  
a plurality of filters having different filter characteristics; and  
~~wherein the adjusting section adjuster comprises includes: a modulation scheme determining section that determines the modulation scheme on a per said processing unit basis using the known signal pattern; and a filter selector selection section configured to select that selects one of the plurality of filters according to the determined modulation scheme.~~

6. (Currently amended) The radio reception apparatus according to claim [[1]] 2,  
wherein the canceller cancelling section cancels adjacent channel interference or inter-symbol interference.

7. (Currently amended) The radio reception apparatus according to claim [[1]] 2,  
wherein the adjuster adjusting section adjusts a filter characteristic of the filter in such a way that a combined characteristic of said filter with a baseband filter at a communicating partner station has a Nyquist characteristic.

8. (Currently amended) A communication terminal apparatus including having the radio reception apparatus recited in claim [[1]] 2.

9. (Currently amended) A base station apparatus including having the radio reception apparatus recited in claim [[1]] 2.

10. (Currently amended) A reception filtering method comprising the steps of:

receiving a signal on a per time processing unit basis, the received signal said processing unit including a known signal pattern on a predetermined per time unit basis;

adjusting a filter for filtering the received signal using the known signal pattern on a per time unit basis in the processing unit; and

canceling an interference component included in the time unit the processing unit using the adjusted filter,

wherein the adjusting comprises

processing likelihoods calculated for individual modulation schemes;

determining a modulation scheme using the known signal pattern; and

controlling tap coefficients to set the filter according to the determined

modulation scheme.